

**Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

1. (Currently Amended) A proton conductor gas sensor wherein water vapor is supplied from a water reservoir to a sensor body having an MEA comprising an electrolyte membrane, a sensing electrode, and a counter electrode, said sensor characterized in that

said water reservoir reserves gel comprising water as a dispersion medium and inorganic fine particles as a dispersoid dispersed in the water.

2. (Original) A proton conductor gas sensor according to claim 1, characterized in that

said inorganic fine particles in said gel are silica fine particles.

3. (Currently Amended) A proton conductor gas sensor according to claim 2, characterized in that

said silica fine particles are made of a silicon compound thermally decomposed in vapor phase.

4. (Original) A proton conductor gas sensor according to claim 1, characterized in that

said sensor body having, in addition to said MEA, a metal plate having an opening towards the water reservoir and contacting the MEA directly.

5. (Original) A proton conductor gas sensor according to claim 4, characterized in that

said metal plate has concaves and convexes on its surface towards the MEA for gas distribution.

6. (Original) A proton conductor gas sensor according to claim 1, characterized by  
a cap having an opening for introducing ambient atmosphere towards said MEA from  
an opposite side of the MEA to the water reservoir and by  
a thin plate between said cap and said MEA, having a diffusion control hole connected  
to the opening of the cap and having a smaller diameter than that of the opening of the cap.

7. (Original) A proton conductor gas sensor according to claim 1, characterized in that  
the MEA of the sensor body is sandwiched between a pair of an upper  
electro-conductive plate and a lower electro-conductive plate,  
and that  
a ring-shaped resinous member, having a pair of upper and lower flanges and a groove  
in between them, all being inside of the member, holds rims of the upper and lower electro-  
conductive plates to press the rims by the upper and lower flanges for fixing the electro-  
conductive plates and the MEA within the ring shaped member.

8. (Currently Amended) A proton conductor gas sensor wherein water vapor is supplied  
from a water reservoir to a sensor body having an MEA comprising an electrolyte membrane,  
a sensing electrode, and a counter electrode, said sensor characterized by  
a cap having an opening for introducing ambient atmosphere towards said MEA from  
an opposite side of the MEA to the water reservoir and by

a thin plate between said cap and said MEA, having a diffusion control hole connected to the opening of the cap and having a smaller diameter than that of the opening of the cap.

9. (Currently Amended) A proton conductor gas sensor wherein water vapor is supplied from a water reservoir to a sensor body having an MEA comprising an electrolyte membrane, a sensing electrode, and a counter electrode, said sensor characterized in that

the MEA of the sensor body is sandwiched between a pair of an upper electro-conductive plate and a lower electro-conductive plate,  
and that

a ring-shaped resinous member, having a pair of upper and lower flanges and a groove in between them, all being inside of the member, holds rims of the upper and lower electro-conductive plates to press the rims by the upper and lower flanges for fixing the electro-conductive plates and the MEA within the ring shaped member.